"Amateur Radio: Combining communication experience with modern digital techniques."

2ⁿᵈ *RaDAR Contest 6 November*
SARL Field Day 20 and 21 November
SARL 80 m Club CW Contest 24 November
CQ WW DX CW Contest 27 and 28 November
PEARS HF Contest 6 December
ARRL 10 Metre Contest 11 and 12 December

HAMNET Emergency Frequency

According to the latest edition of the IARU Intruder Watch, Radio Addis Ababa went silent on 15 August and has not been heard on air again.

After doing some monitoring and obtaining information from countries closer to Ethiopia, it will appear that the transmitter either has gone off air or has moved frequency.

With the School holidays upon us, I would like to suggest that from Wednesday 1 December, HAMNET moves back to our 7 110 kHz allocated slot for monitoring over the Christmas and New Year periods on a permanent basis.

However, from today, 1 November - as you receive this bulletin – let us move to 7 110 kHz for the month of November as an experiment to test the water so to speak.

This is an ideal opportunity for us to our move back to our allocated frequency of 7 110 kHz for an initial test period prior to the school holidays. We share this portion of the band with the Maritime Mobile net that operate on 7 120 kHz.

All schools across the country close on Friday the 10th of December. In our December bulletin we will discuss more fully what we plan to do monitoring wise over the school holiday period.

Should we run into interference problems on 7 110 kHz, I suggest that we again move to 7 060 kHz for serious and or emergency traffic but let us use this period in November to get back into our allocated Region 1 frequency.

New 500 kHz permit in the Czech Republic

On the IARU Region 1 website Colin, G3PSM, reports that a permit for 500 kHz operation has been issued in the Czech Republic. He writes: "Lubomir, OK2BVG, tells us that he has been given permission to operate between 501 - 504 kHz with maximum power of 20 W ERP. This permission is valid until 1 September 2011.

Lubomir would like to thank the executive staff of the Czech Telecommunications Office and OK1HH of the Czech Radio Club for their assistance.

This means that 11 countries in Region 1 are now known to be authorised in this part of the 500 kHz band and details can be found on this website at http://www.iaru-r1.org/index.php?option=com_content &view=article&id=180&itemid=133

With WRC-12 only 14 months away and negotiations continuing in Geneva between 8 and 19 November, Member Societies are reminded that any updates and new permissions should be advised to your negotiating team via the Region 1 Secretary. IARU Region 1 http://www.iaru-r1.org/

HF Happenings 428

November

6 RaDAR Contest
6/7 ARRL CW Sweepstakes
7 National Marine Day
11 Armistice Day
14 Remembrance Sunday
20/21 SARL Field Day
20/21 ARRL SSB sweepstakes
21 Closing date CW WW DX Phone logs
24 SARL Club CW Contest
27/28 CQ WW DX CW Contest

December

1 World Aids Day; Closing date SARL Club logs
2 Hanukkah
4/5 ARRL 160 metre contest
5 PEARS HF contest
6 Closing date SARL Field Day logs
7 Muharram
10 Schools close; Int. Human Rights Day - Namibia
11/12 ARRL 10 metre contest
16 Day of Reconciliation
21 Summer Solstice; closing date CQ WW DX CW logs
25 Christmas Day
26 Family Day
27 Public Holiday
31 Closing CQ DX Marathon; Closing date PEARS HF logs

Radio Uganda on 7 195 KHz Reluctant to Move

An Ugandan broadcaster is playing hardball and is refusing to leave the amateur only portion of 40 metres. This, even after notification from the government, Radio Uganda continues to operate on the amateur radio frequency of 7 195 kHz.

Following notification by 5X1JM, the Uganda Communications Commission informed Radio Uganda the broadcaster is not permitted to use the frequency within the amateur radio exclusive spectrum. So far, the station has continued to use the frequency and it is believed that it may be some time before they move out.

Observers say that at least the point has been made and action initiated by Ugandan government telecommunications authorities against the now unauthorized use of the frequency.

Fred Scheepers, ZS1FCS, is requesting your participation in monitoring the 40 metre amateur band and report any intrusion by unauthorised stations to the SARL - IARU monitoring service by email to intruder@sal.org.za. Please include as much information as possible such as time of operation, station identification and, if available, a mp3 recording of the station identification which can normally be heard on top of the hour and on the half hour.

RaDAR Contest

The second RaDAR Contest will take place on Saturday 6 November from 12:00 to 18:00 UTC (14:00 to 20:00 CAT). It is a multi mode contest on all the amateur bands but excluding the WARC bands and including satellite.

The contest is for everyone, at home, in your car, in the field using any mode, CW, SSB, FM or digital modes. Support your friends in the field, you never know, you may work a really rare grid in the process!

The event is aimed at promoting the use of Rapid Deployable Amateur Radio stations and antennas preferably without relying on normal mains power (Eskom).

The exchange is your call sign, name, QTH and grid locator. The points system is so structured as to encourage portable operation. Score multipliers are used to reward and favour the portable stations and stations using temporary antennas and alternative power supply sources.

visit www.nwinternet.za.org/zs6bne/RaDAR/. For the complete set of rules or read it on page 27 of the 2010 SARL Contest Manual. Please use the logbook format available as links on the websites.

There may be International participation (the RaDAR Concept has been adopted in other countries too), please look out for the DX stations. Most important, enjoy the contest!

SARL VHF/UHF Contest

Well the September 2010 SARL contest has come and gone. The second leg of 2010 was run under the redrafted rules. Let us look back at the contest. From the logs the following info was gathered.

On 50 MHz - 26 stations took part. The longest analogue distance logged was 236 km between Pretoria ARC, ZS6PTA/4, and Dick, ZS6BUN, and the longest digital distance logged was 1 181 km between Andre, ZS2ACP, and Paul, ZS6NK.

On 70 MHz - 8 stations took part. The longest analogue distance logged was 232 km between the Pretoria ARC, ZS6PTA/4, and Pieter, ZS6PVW, and the longest digital distance logged was 1 181 km between Andre, ZS2ACP, and Paul, ZS6NK.

On 144 MHz - 42 stations took part. The longest analogue distance logged was 272 km between Pierre, ZS6BB, and Willem, ZS6WAB; and the longest digital distance logged was 1 181 km between Andre, ZS2ACP, and Willem, ZS6WAB.

On 432 MHz - 19 stations took part. The longest analogue distance logged was 272 km between Pierre, ZS6BB, and Willem, ZS6WAB;

On 23 cm and higher – no contacts were made.

So what can be gathered from the logs.
- ✓ Many stations took part, most just giving away points.
- ✓ Activity levels were up compared to the first leg of 2010, but no way near what it can be.
- ✓ ZS6PTA/4 went all the way to Div 4 to put up their field station, and it gave them the top score with just about all of their 58 contacts over the 200 km mark.

Where to from here?
- ✓ Let us get busy planning for next year's VHF/UHF contest
- ✓ Only Div 6 took part, yet ZS6PTA had to drive all the way to Div 4 to set up their winning station.
- ✓ Where are all the other divisions?
- ✓ Clubs, please get involved with setting up field stations, Field stations make the contest, they will be the ones getting the long distances to their members and activating rare grids.
- ✓ Get involved with the local simplex groups, if you do not have a simplex evening in your area, start one.
- ✓ Be it on FM, SSB or Digital. Get involved.
- ✓ Every Saturday and Sunday morning there is SSB and Digital activity on 6m, 4m and 2m country wide, join them.
- ✓ For information in your area, mail the following amateurs, they will be able to help with information on antennas, radio's, modes and so on.

Div 1 Allan, ZS1LS allan@rfdesign.co.za
Div 2 Andre, ZS2ACP, zs2acp@telkomsa.net
Div 3 Sian, ZS3SVD, sian@global.co.za
Div 4 Nico, ZS4N, zs4n@mweb.co.za
Div 5 Derek, ZS5Y, derek@fotogravett.com
Div 6 Pine, ZS6OB, pienaarja@gmail.com

The results of the second leg of the 2010 VHF/UHF contest

1st Field station Multi operator – Pretoria ARC, ZS6PTA/4 with 113 210 points

1st Single operator Home Station – Pine, ZS6OB with 30 252 points
2nd Single operator Home Station – Pierre, ZS6BB with 9 584 points

1st Single operator Home Station Digital – Andre, ZS2ACP with 70 805 points

SA Band Countries Survey

With the excitement around the four new DXCC countries in the Carribean, most ZS DXers will have lost two countries and gained up to four. Now is a good time to update the Southern Africa Band Countries Survey - http://zs6ez.org.za/lists/bands/latest.htm

Please send me your latest scores on each band. Please include all bands, even if you are not in the Top Six yet. Depending on inputs, I'll produce a year-end Top 10, like the one at http://zs6ez.org.za/lists/bands/band2008.htm.

Some ground rules:
* Include only current countries. Deleted do not count.
* Include all worked countries, regardless of QSL status.
* Include the four new countries (PJ2, PJ4, PJ5/6, PJ7), and exclude the two deleted PJ entities.
* Please email me your totals. Just collating them is a lot of work, and I cannot go digging on your Web site to find the info.

Finally, if you know of anyone else who has not received this message and who is a DXer in southern Africa, please let me know about them, and let them know about the Survey.

Finally, please note the email address this message is being sent from. In future, please only use this address. The others are being discontinued.

Regards, Chris, ZS6EZ, chris@zs6ez.org.za

VOACAP Online goes Google Maps

"I am pleased to inform that the online HF propagation prediction service VOACAP Online - http://online.voacap.com - now uses Google Maps for coordinate entry. This should make the service even more usable (=much quicker) and accessible, also for a casual user. The transmitter and receiver coordinates are defined by dragging two location markers on the map. The mouse wheel or keyboard keys can be used for zooming in and out so placing the markers at the exact points on the map is as accurate as it can get. I have also updated the sunspot predictions until the year 2012.

If you have any questions or suggestions, please feel free to drop me a note. Jari, OH6BG, oh6bg@sral.fi"

African DX

Marion Island, ZS8. Pierre, ZS8M is now QRT until he can install the equipment at the new base. Now it has been removed from the old base and is in storage at the new site.

5R8X - the latest from Madagascar. Now that the 2010 CQ WW SSB Contest is history, the low-band operation at 5R8X will get seriously underway tonight, Monday. The low-band site was built but not activated for CQ WW because of a severe bout of stomach problems afflicting the group. Also, extended power outages limited 5R8X activity during the past weekend.

So, starting tonight, 160, 80, 40 and 30 m will be activated for the dark hours every night. During the week, a specific pattern may be established for the bands. Activity will run for 8 days, until Tuesday next week. OH2PM and OH6KN will be at the helm. They did preliminary tests with USA and Japan, and everything is in order.

They plan to use 1 822,5, 3 505,5, 3 525,0, 7 005,5, 7 025,0 and 10 105,5 MHz CW almost exclusively. From the base camp, they plan to focus on 24 MHz. The distance between the sites is 15 km or about 1 hour. The team remain in good spirits and have passed the 7 000 QSO mark. QSL via OH2BH.

Pantelleria Island (Africa Italy), IH9, AF-018. Giacomo, IH9GPI, and a team operators, I2YSB, IK2HKT, IK2DIA, and IK2CKR, will be active as IH9GPI from Pantelleria Island during the CQ WW DX CW Contest, 27 and 28 November as a Multi-Multi entry. QSL via IH9GPI.

Operators Tony, IK1QBT, and Emilio, IZ1GAR, will be active as IH9/IK1QBT and IH9/IZIGAR from Pantelleria Island (IH9 African Italy - WLOTA 0041), between 23 and 30 November. Their activity will include the CQ WW DX CW Contest. Tony will be a Single-Op/Single-Band (80m) entry signing as IH9X. Emilio will be a Single-Op/Single-Band (40 m) entry signing as IH9R. Pantelleria counts a multiplier Zone 33 Africa Italy for the CQ WW DX rule (island is located over the African continent platform). Prior to the contest, they will be putting an emphasis on the lower bands. QSL via their home call sign.

Morocco, CN, AF-065. Some of the operators from the recent TS7TI and TS8P operations are planning a DXpedition to Herne Island, Morocco, in 2011. This island is a rare IOTA (14.1 %). The group is hoping to receive permission. They state that their friend Kacem, CN8LR, secretary of ARRAM, is helping them obtain a license and special call sign. For updates, watch http://www.i8lwl.it

Gabon, TR. Vincent, F4BXW, will active as TR8GV from Libreville between 3 and 23 November. Activity will be on the HF bands using SSB. QSL via his home call sign.

Tristan da Cunha, ZD9. Dieter, DJ2EH, will be active between 20 November and 8 December. Call sign was not mentioned. Activity will be on CW, SSB and RTTY on all bands.

South Africa, ZS2. Donovan, ZS2DL, will be active during the CQ WW DX CW Contest (27 and 28 November) as a Single-Op/All-Band/High-Power entry. QSL via NI5DX. Look for online logs to be posted at http://www.zs2dl.co.za

Sierra Leone, 9L. Karl-Heinz, DK2WV, and Heino, DJ9AF, will be active as 9L0W from the Banana Islands (AF-037) between 4 and 18 November. They plan to operate CW, SSB and RTTY on 160 - 6 metres. QSL via DK2WV.

Democratic Republic of the Congo, 9Q. 9Q6CC is the new call sign issued to Christian, CX2CC, for his activity from Goma, Democratic Republic of the Congo. He will remain there for one year with activity on 80 - 10 metres SSB, digital modes and QRS CW. QSL via home call (Christian Cardarello, Avenida Italia 3319, 11600 Montevideo, Uruguay). Cards will be replied "after February 2012."

Burundi, 9U. Operators Wolf, DL4WK, Sigi, DL7DF, Rolf, DL7VEE, and Frank, DL7UFR, will be active as 9U0A from the Hotel Club Du Lac Tanganyika, Bujumbura, Burundi, on 2 - 11 November 2010. Activity will be on 160 - 10 metres using CW, SSB and the Digital modes. They plan to have several stations on the air with one station exclusively dedicated to RTTY, PSK31 and SSTV. QSL via DL7DF, by the bureau or direct. Further information is available at their website www.dl7df.com/9x_9u/index.html

Namibia, V5. Klaus, V5/DJ4SO, is going to hit the airwaves again from Namibia from 3 to 30 November. He plans to take part in the upcoming WAEDC RTTY Contest and the CQ WW DX CW Contest on all bands. He will work mainly in CW, RTTY and PSK31 (only a little SSB) on 160 – 6 m. As last year, his QTH will be the farm "Heimat" southeast of Windhoek. QSLs via bureau (an e-mail to klaus@dj4so.de is enough), direct or LoTW, no eQSLs!

Senegal, 6W. Matthias, DL5MFL, Juergen, DL4MAQ, and Sven, DF9MV, are planning a DXpedition to Senegal from 8 to 18 November. They are going to visit the resort of Francois, http://www.le-calao.com, and think of a "dedicated holiday style operation". A call sign for the team (6V7xx) has been applied for and more information will follow as soon the licence is available.

    They will use Yagis for 6, 10, 15 and 20 m, a square for 40 m, a vertical for 40, 80, 160 m and wire antennas for the WARC bands. They plan to work with two stations at the same time mainly in CW/SSB, maybe PSK31.

    They have a survey on their website to find out which bands and modes are most needed and promised to focus on them http://dl4maq.wordpress.com/category/6w8-2010. QSL cards should be sent via bureau or direct via Fredy, DE0MST.

Malawi, 7Q. Harry, 7Q7HB / G0JMU, is drawn to warmer climes and stays in Malawi again until January 2011. He is working on CW and digital modes on HF. His QSL manager G0IAS accepts QSL cards only direct.

Special Event Station

Cyprus. Alan, 5B4AHJ, made his first amateur radio exam 50 years ago which is a good reason to activate the special call sign 5B50J for one year. Alan is working SSB and CW until 25 October 2011. QSL via 5B4AHJ.

Germany. The festivities of the 20th anniversary of the German reunification are taking place in Bremen this year. Thus the amateur radio club in Bremen (I04) activates the special call sign DL20Y2DM until 31 August 2011. The special DOK is 20DEI04.

Contest Calendar
This week's contests compiled by Bruce Horn, WA7BNM. The period covered is 1 to 8 November 2010.

ARS Spartan Sprint
01:00 - 03:00 UTC 2 November
Mode: CW
Bands: 80, 40, 20, 15 and 10 m
Classes: Skinny; Tubby
Max power: 5 watts
Exchange: RST, state, province or country and Power
Work stations: Once per band
Submit logs by: 4 November 2010
E-mail logs to:

spartansprint[at]yahoo[dot]com
Mail logs to: (none)
Find rules at:
http://adventure-ra-dio.org/wiki/index.php?title=Spartan_Sprint_Rules

QRP Fox Hunt
01:00 - 02:30 UTC 3 November
Mode: CW

Bands: 80 m Only
Classes: Single Op (Fox/Hound)
Max power: 5 watts
Exchange: RST, state, province or country, name and power output
QSO Points: 1 point per QSO
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: 02:30 UTC 4 November 2010
E-mail logs to: (see rules)
Mail logs to: (none)
Find rules at:
http://www.qrpfoxhunt.org/winter_rules.htm

QRP Fox Hunt
01:00 - 02:30 UTC 5 November
Mode: CW
Bands: 40 m Only
Classes: Single Op (Fox/Hound)
Max power: 5 watts
Exchange: RST, state, province or country, name and power output
QSO Points: 1 point per QSO
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: 02:30 UTC 6 November 2010
E-mail logs to: (see rules)
Mail logs to: (none)
Find rules at:
http://www.qrpfoxhunt.org/winter_rules.htm

NCCC Sprint
02:30 - 03:00 UTC 5 November
Mode: (see rules)
Bands: (see rules)
Classes: (none)
Exchange: (see rules)
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 7 November 2010
E-mail logs to: (none)
Post log summary at:
http://www.hornucopia.com/3830score/
Mail logs to: (none)
Find rules at:
http://www.ncccsprint.com/rules.html

NCCC Sprint
02:30 - 03:00 UTC 6 November
Mode: (see rules)
Bands: (see rules)
Classes: (none)
Exchange: (see rules)
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 8 November 2010
E-mail logs to: (none)
Post log summary at:
http://www.hornucopia.com/3830score/
Mail logs to: (none)
Find rules at:
http://www.ncccsprint.com/rules.html

Ukrainian DX Contest
12:00 UTC 6 November to 12:00 UTC 7 November
Mode: CW, SSB
Bands: 160, 80, 40, 20, 15 and 10 m
Classes: Single Op All Band Mixed – CW & SSB – QRP, Low or High; Single Op All Band – CW or SSB – Low or High; Single Op Single Band Mixed - CW&SSB; Multi-Single Mixed – CW & SSB
Max power: HP: >100 watt; LP: 100 watt; QRP: 5 watt
Exchange: Ukraine: RS(T) and 2-letter oblast; non-Ukraine: RS(T) and Serial No.
Work stations: Once per band per mode (CW/SSB)
QSO Points: 1 point per QSO with same country; 2 points per QSO with different country, same continent; 3 points per QSO with different continent; non-UR Stations: 10 points per QSO with Ukraine
Multipliers: UR Stations: each DXCC/WAE country once per band; non-UR Stations: each DXCC/WAE country once per band; non-UR Stations: each Ukraine oblast once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 7 December 2010
E-mail logs to: urdxc[at]ukr[dot]net
Mail logs to: Ukrainian Contest Club HQ, PO Box 4850, Zaporozhye 69118, Ukraine
Find rules at:

http://www.ucc.zp.ua/urdxc2010rules_eng.htm

ARRL Sweepstakes Contest, CW
21:00 UTC 6 November to 03:00 UTC 8 November
Mode: CW
Bands: 160, 80, 40, 20, 15 and 10 m
Classes: Single Op – QRP, Low, High or Unlimited; Multi-Op; School Club - College, Technical or Secondary
Max operating hours: 24 with at least 30 minute off times
Max power: HP: >150 watt; LP: 150 watt; QRP: 5 watt
Exchange: Serial no, precedence (Q, A, B, U, M or S), your call sign, Check and ARRL or RAC Section
Work stations: Once only
QSO Points: 2 points per QSO
Multipliers: Each ARRL/RAC section and VE NT once
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 03:00 UTC 23 November 2010
E-mail logs to: SSCW[at]arrl[dot]org
Mail logs to: November SS CW, ARRL, 225 Main St., Newington, CT 06111, USA
Find rules at:
http://www.arrl.org/sweepstakes

NA Collegiate ARC CW Championship
21:00 UTC 6 November to 03:00 UTC 8 November
Mode: CW
Bands: 160, 80, 40, 20, 15 and 10 m
Classes: School Club (College)
Max operating hours: 24 with at least 30 minutes off times
Max power: HP: >150 watt; LP: 150 watt; QRP: 5 watt
Exchange: Serial no, precedence (Q, A, B, U, M or S), your call sign, Check and ARRL or RAC Section
Work stations: Once only
QSO Points: 2 points per QSO
Multipliers: Each ARRL/RAC section and VE NT once

Score Calculation: Total score = total QSO points x total mults
Submit logs by: 03:00 UTC 23 November 2010
E-mail logs to: SSCW[at]arrl[dot]org
E-mail log summary to: wm5r[at]wm5r[dot]org
Mail logs to: November SS CW, ARRL, 225 Main St., Newington, CT 06111, USA
Find rules at:
http://www.collegiatechampionship.org/rules/

High Speed Club CW Contest
09:00 - 11:00 UTC 7 November and 15:00 - 17:00 UTC 7 November
Mode: CW
Bands: 80, 40, 20, 15 and 10 m
Classes: HSC Members; Non-Members; QRP; SWL
Max power: 150 watt; QRP: 5 watt
Exchange: Members: RST and HSC no; non-Members: RST and "NM"
Work stations: Once per band per period
QSO Points: 5 points per QSO with a HSC member; 1 point per QSO with a non-member
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: 28 November 2010
E-mail logs to:
hsccontest[at]googlemail[dot]com
Mail logs to: Jo Mertens, DJ4EY, HSC Contest Manager, Am Muhlebruch 32, 59581 Warstein, Germany
Find rules at:
http://www.fmcnet.de/hsc/en/contests.html

DARC 10-Meter Digital Contest
11:00 - 17:00 UTC 7 November
Mode: RTTY, Amtor, Clover, PSK31, Pactor
Bands: 10 m Only
Classes: Single Op; SWL
Exchange: RST and serial no
QSO Points: 1 point per QSO
Multipliers: Each WAE/DCXX area; Each W/VE call area
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 7 December 2010

E-mail logs to: df5bx[at]darc[dot]de
Mail logs to: Werner Ludwig, DF5BX, PO Box 1270, 49110 Georgsmarienhuette, Germany

Find rules at:
http://www.darc.de/referate/ukw-funksport/sonder/tei-digi.htm

Next Week's Contests

QRP Fox Hunt, 02:00 - 03:30 UTC 10 November
CWops Mini-CWT Test, 11:00 - 12:00 UTC and 19:00 - 20:00 UTC 10 November; 03:00 - 04:00 UTC 11 November
RSGB 80 m SSB Club Sprint, 20:00 - 21:30 UTC 11 November
QRP Fox Hunt, 02:00 - 03:30 UTC 12 November
WAE DX RTTY Contest, 00:00 UTC 13 November to 23:59 UTC 14 November
JIDX Phone Contest, 07:00 UTC 13 November to 13:00 UTC 14 November
OK/OM DX CW Contest, 12:00 UTC 13 November to 12:00 UTC 14 November
Kentucky QSO Party, 14:00 UTC 13 November to 02:00 UTC 14 November
CQ-WE Contest, 19:00 - 23:00 UTC 13 November (CW and Digital); 01:00 - 05:00 UTC 14 November (Phone); 19:00 - 23:00 UTC 14 November (Phone) and 01:00 - 05:00 UTC 15 November (CW and Digital)
SKCC Weekend Sprint, 00:00 UTC-24:00 UTC 14 November

History This Week

A look back at events that made history this week - compiled by the Summerland Amateur Radio Club of Lismore, NSW. The week starting Monday 01 November 2010.

1872 - Mahlon Loomis patents wireless radio
1891 - Edison patents "transmission of signals electrically" (radio)
1896 - Guglielmo Marconi patents the radio
1896 - Sestier and Barnett film the Melbourne Cup, the first famous film made in Australia
1901 - Marconi sends first transatlantic radio signal from Cornwall, England to Newfoundland, Canada
1902 - Nathan Stubblefield makes first public demonstration of radio, Pennsylvania
1903 - First regular transatlantic radio broadcast between the US and England
1904 - Marconi Co establishes "CQD" as first International radio distress signal
1906 - First radio set advertised (Telimco for $7.50 in Scientific American) claimed to receive signals up to one mile
1906 - US inventor Lee de Forest patents "Audion," a 3-diode amplification valve that proved a pioneering development in radio and broadcasting
1906 - International Wireless Telegraph Convention, Berlin, adopts "SOS" as new call for help
1915 - 1st US transcontinental radio telephone message is sent
1970 - Australia's first amateur radio satellite, Oscar 5, launched (Calif)

Items used with acknowledgement to The ARRL Letter, Amateur Radio Newsline, OPDX Bulletin, 425 DX Bulletin, DXNL Bulletin, ARRL DX News, WIA-News, the RSGB News, Southgate ARC and Pete's DX Newsdesk.

Newsletter editors are most welcome to use material from HF Happenings, just remember to acknowledge the source (which could be any one of the names mentioned above). HF Happenings can be provided in MS Word format.